

CLAIMS

What is claimed is:

- 1 1. A method comprising:
2 extracting at least one visual feature from a document, the document
3 having a plurality of pages;
4 ranking the pages in a document based on the at least one visual feature;
5 and
6 display pages based on ranking.

- 1 2. The method of claim 1 wherein a plurality of visual features are
2 used in ranking and at least one visual feature is weighted.

- 1 3. The method of claim 1 wherein the visual feature is one of a
2 picture, a text block, a character size, a character style, and a color

- 1 4. The method of claim 1 wherein a visual feature is weighted based
2 on gradations of the visual feature.

- 1 5. The method of claim 1 wherein a visual feature is weighted based
2 on location of the visual feature on a page.

1 6. The method of claim 1 wherein the visual feature is represented in
2 a vector form.

1 7. The method of claim 1 wherein the visual feature is used as a
2 distance measure between a first document and a second document.

1 8. The method of claim 1, further comprising clustering of a plurality
2 of pages within a document.

1 9. The method of claim 1, further comprising using visual features to
2 reveal a transition from a first page to a second page of a document.

1 10. The method of claim 1, wherein ranking of the pages includes a
2 correction mechanism.

1 11. The method of claim 1, wherein a scheme showing one of a
2 plurality of pages in a document and a plurality of documents is by one of a
3 linear display, a line of icons, and as a stack.

1 12. A computer system comprising:
2 a display;
3 a processor coupled to the display; and

4 a memory coupled to the processor and having stored therein a routine,
5 which when executed by the processor, causes the processor to generate display
6 data through:

7 extracting at least one visual feature from a document, the
8 document having a plurality of pages,
9 ranking the pages in the document according to the at least one
10 visual feature,
11 selecting a page for representing a document according to a rank,
12 and
13 displaying the selected page as the display data.

1 13. The computer system of claim 12 wherein a plurality of visual
2 features are used in ranking and at least one visual feature is weighted.

1 14. The computer system of claim 13 wherein the visual feature is one
2 of a picture, a text block, a character size, a character style, and a color.

1 15. The computer system of claim 13 wherein a visual feature is
2 weighted based upon gradations of the visual feature.

1 16. The computer system of claim 13 wherein the visual feature is
2 represented in a vector form.

1 17. The computer system of claim 13 wherein the visual feature is used
2 as a distance measure between a first document and a second document.

1 18. The computer system of claim 12, wherein generating display data
2 further comprises clustering of a plurality of pages within a document.

1 19. The computer system of claim 12, wherein a plurality of pages are
2 selected and generating display data further comprises using visual features to
3 reveal a transition from a first page to a second page of a document.

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21. The computer system of claim 12, wherein ranking the pages
2 includes a correction mechanism.

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22. The computer system of claim 12, wherein a scheme showing one
2 of a plurality of pages in a document and a plurality of documents is by one of a
3 linear display, a line of icons, and as a stack.

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23. An article of manufacture having at least one machine readable
2 storage media containing executable program instructions which when executed
3 by a digital processing system cause the digital processing system to:
4 extract at least one visual feature from a document, the document having
5 a plurality of pages,

rank pages in the document based on said at least one visual feature,
select the pages for representing a document based on ranking, and
display selected pages.

1 ^{RI.124} ~~23.~~ 24. The machine readable storage media of claim 23, wherein a
2 plurality of visual features are used in ranking and at least one visual feature is
3 weighted.

1 ^{RI.126} ~~24.~~ 25. The machine readable storage media of claim 23, wherein the visual
2 feature is one of a picture, a text block, a character size, a character style, and a
3 color.

1 ^{RI.126} ~~25.~~ 26. The machine readable storage media of claim 25, wherein a visual
2 feature is weighted based upon gradations of the visual feature.

1 ^{RI.126} ~~26.~~ 27. The machine readable storage media of claim 23, wherein the visual
2 feature is represented in a vector form.

1 ^{RI.126} ~~27.~~ 28. The machine readable storage media of claim 23, wherein the visual
2 feature is used as a distance measure between a first document and a second
3 document.

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The machine readable storage media of claim 23, further

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The machine readable storage media of claim 23, further

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The machine readable storage media of claim 23, wherein ranking

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The machine readable storage media of claim 23, wherein a scheme

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A method comprising:

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